

STIC Database Tracking Number: 238561

To: JONATHAN FOREMAN  
Location: RND-7A11  
Art Unit: 3736  
Wednesday, February 25, 2009

Case Serial Number: 10/725393

From: ETHEL LESLIE  
Location: EIC3700  
RND-8A20  
Phone: (571)272-5992

[ethel.leslie@uspto.gov](mailto:ethel.leslie@uspto.gov)

## Search Notes

Jonathan,

Attached is the completed search for the cell phone capable of diagnosing neuropathy that we discussed yesterday.

I searched the inventor in the patent as well as non-patent literature and the results are included. I did an extensive search on the requested topic in a number of bibliographic and full-text databases as well as on the Internet. I found several items that I think might help you – they are marked with the titles highlighted in yellow. Please be sure to look over all the results as there may be other items of interest. I have included the search strategies used for the searches performed.

I hope you find this search helpful. If you have a moment, please fill out the STIC Feedback Form. ***We welcome your feedback and are particularly interested in learning if you use any of these references in an office action. If you have a moment, please let us know which references you use.***

And, if there is anything I can do to refine or revise this search, please let me know.

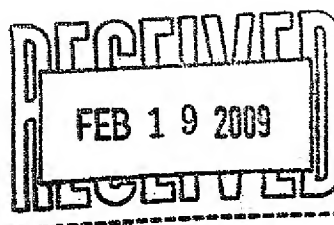
Sincerely,  
Ethel Leslie

Solomon, Terrence

286561

**From:** JONATHAN FOREMAN [jonathan.foreman@uspto.gov]  
**Sent:** Thursday, February 19, 2009 11:16 AM  
**To:** STIC-EIC3700  
**Subject:** Search Request, Case/Application No.: 10/725393

Requester: JONATHAN FOREMAN (P/3736)  
Art Unit: GROUP ART UNIT 3736  
Employee Number: 79525  
Office Location: RND 7A11  
Phone Number: (571)272-4724



Case/Application number: 10/725393  
Priority Filing Date:  
Format for Search Results: Email  
Is this a Board of Appeals case? No, this is not a Board of Appeals case.  
Synonyms:

Describe this invention in your own words:

**This is a cell phone or other portable communication device (PDA) that has two vibrating functions...one for when a call is recieved...the other for diagnosing neuropathy...the second vibrating function can vary in magnitude and/or frequency.**

Terms to avoid:

Additional comments:

Attachment: No

2/19/09

Noting

## EIC SEARCH RESULTS

### Serial No. 10/725,393 – Method and combination electronic communication and medical diagnostic apparatus for detecting/monitoring neuropathy

Searcher: Ethel Leslie

Date: February 24 & 25, 2009

### Inventor Search

#### Search Strategy

Set	Items	Description
S1	23006	S AU=(GUPTA A? OR GUPTA, A?)
S2	475	S S1 AND (NEUROPATH? OR NEURITIS? OR NEURITID? OR (NEUROLOG? OR NERVE? ? OR NERVOUS()SYSTEM OR CNS OR BRAIN) (3N) (DISORDER? OR CONDITION? OR DISEASE? OR DYSFUNCTION? OR DISFUNCTION? OR MALFUNCTION? OR AILMENT? ? OR ILLNESS?? OR COMPLAINT? OR MALADY? OR MALADIES OR SICK OR SICKEN? OR SICKNESS? OR PROBLEM? ?))
S3	1	S S2 AND (PHONE? ? OR TELEPHONE? ? OR BEEPER? ? OR PAGER? ? OR (COMMUNICAT? OR HANDHELD OR WIRELESS) (2N)DEVICE? ? OR PDA OR BLACKBERRY? OR BLACK()BERRY? ?)
S4	1	S S2 AND (VIBRAT? OR OSCILLAT? OR PULSAT?) (5N) (DIAGNOS? OR TEST??? OR SCREEN? OR ASSESS? OR MONITOR? OR DETECT? OR EVALUAT? OR PREDICT?)
S5	0	S S3 NOT S4

[File 350] **Derwent WPIX** 1963-2008/UD=200911  
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[File 347] **JAPIO** Dec 1976-2008/Oct(Updated 090220)  
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[File 155] **MEDLINE (R)** 1950-2009/Feb 18  
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[File 73] **EMBASE** 1974-2009/Feb 20  
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[File 5] **Biosis Previews (R)** 1926-2009/Feb W3  
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[File 8] **Ei Compendex (R)** 1884-2009/Feb W3  
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[File 2] **INSPEC** 1898-2009/Feb W3  
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[File 35] **Dissertation Abs Online** 1861-2009/Jan  
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[File 65] **Inside Conferences** 1993-2009/Feb 23  
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#### Search Results

3/25,K/1 (Item 1 from file: 350)

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0015107010 & & Drawing available

WPI Acc no: 2005-456489/200546

XRPX Acc No: N2005-371074

**Combination electronic communication and medical diagnostic apparatus for e.g. use as e.g. pager, has vibration magnitude/frequency selector to detect neuropathy, when vibration mode selector is in diagnostic mode**

Patent Assignee: GUPTA A (GUPT-I); GUPTA A M (GUPT-I)

Inventor: **GUPTA A; GUPTA A M**

Patent Family ( 8 patents, 107 & countries )

Patent Number	Kind	Date	Update	Type
US 20050124910	A1	20050609	200546	B
WO 2005060395	A2	20050707	200546	E
EP 1697276	A2	20060906	200659	E
AU 2004304789	A1	20050707	200707	E
KR 2006109932	A	20061023	200731	E
JP 2007512900	W	20070524	200735	E
IN 200603186	P1	20070803	200771	E
CN 1997310	A	20070711	200801	E

US 20050124910

Local Applications (no., kind, date): US 2003725393 A 20031203; WO 2004US26730 A 20040910; EP 2004781427 A 20040910; WO 2004US26730 A 20040910; AU 2004304789 A 20040910; WO 2004US26730 A 20040910; KR 2006710884 A 20060602; WO 2004US26730 A 20040910; JP 2006542556 A 20040910; WO 2004US26730 A 20040910; IN 2006DN3186 A 20060602; CN 200480041323 A 20040910; WO 2004US26730 A 20040910

Priority Applications (no., kind, date): US 2003725393 A 20031203

#### **Alerting Abstract US A1**

NOVELTY - The apparatus has a vibration mode selector (18) to operate the apparatus either in communication/diagnostic mode. A motor produces vibration at standard paging magnitude/frequency to receive or transmit signals via a communication signal receiver/transmitter (20), in communication mode. A magnitude/frequency selector (22) allows a user to select a vibration magnitude/frequency to detect/monitor **neuropathy**, in diagnostic mode.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of detecting **neuropathy** in a subject.

USE - Used as a **pager/beeper**, a cellular **phone** and a medical diagnostic tool for detecting and monitoring **neuropathy** caused by various medical conditions or ailments e.g. diabetes, kidney failure or uremia, alcohol abuse, vitamin deficiencies and carpal tunnel syndrome, and by nurses, physicians and other health care professionals.

ADVANTAGE - The vibration mode selector allows easy detection or monitor of **neuropathy**, in diagnostic mode, thus enabling a nephrologist in determining whether to maintain the present level of kidney dialysis or to increase dialysis dose for the patient being evaluated in simple and inexpensive manner. The determination of dialysis dose enables early detection of ulcers, infections, and amputations, and hence providing proper foot care. The apparatus can be easily used by a user for self-diagnostic or self-monitoring purposes, thus leading to reduction in overall health care spending and better wellbeing for the patients.

DESCRIPTION OF DRAWINGS - The drawing shows various components of a combination electronic communication and medical diagnostic apparatus.

16 Power source

18 Vibration mode selector  
20 Communication signal receiver/transmitter  
22 Magnitude/frequency selector  
24 Display

## Foreign & International Patent Search

### Search Strategy

Set	Items	Description
S1	833185	S TELEPHONE? OR PHONE? ? OR (CELL OR CELLULAR OR MOBILE OR WIRELESS? OR CORDLESS? OR (WIRE OR CORD)())LESS OR PORTABL? OR HANDHELD OR HAND()HELD OR BLUETOOTH OR BLUE()TOOTH OR WIFI OR WI()FI OR COMMUNICAT?) (2N) DEVICE? ? OR CELLPHONE? OR MOBILEPHONE? OR CELLULARPHONE? OR PAGER? ? OR BEEPER? ?
S2	206832	S PDA OR PERSONAL()DIGITAL()ASSISTANT? OR PALM()(PILOT? OR OS) OR PALMPILOT? OR PALMTOP? OR PALM()TOP OR TREO? ? OR (HANDHELD OR HAND()HELD OR PORTAB? OR POCKET) (2N)(PC OR PCS OR COMPUTER? ? OR DEVICE? ?) OR POCKETPC? OR WINDOWS()CE OR SONY()VISOR OR BLACKBERRY? OR BLACK()BERRY? ?
S3	871409	S S1:S2
S4	27408	S VIBRAT? OR OSCILLAT? OR PULSAT?
S5	107456	S FREQUENCY? OR FREQUENCIES OR MAGNITUDE? OR INTENSITY? OR INTENSITIES OR FORCE?
S6	238212	S DIAGNOS? OR TEST OR TESTS OR TESTED OR TESTING OR SCREEN??? OR ASSESS? OR EXAM? ? OR EXAMIN? OR DETECT? OR SENSE? ? OR SENSING OR SENSOR? ? OR EVALUAT? OR PREDICT?
S7	56	S NEUROPATH? OR MONONEUROPATH? OR POLYNEUROPATH? OR POLYRADICULONERUOPATH? OR RADICULONEUROPATH? OR ENCEPHALOPATHY? OR MYLEPATH? OR NEURITIS? OR NEURITID? OR MONONEURITIS? OR MONONEURITID? OR POLYNEURITIS? OR POLYNEURITID? OR GUILLAIN?() (BARR OR BARRE) OR GUILLAINBARR? OR AIDP OR MILLER()FISHER
S8	188	S (NEUROLOG? OR NERVE? ? OR NERVOUS()SYSTEM OR CNS OR BRAIN) (3N) (DISORDER? OR CONDITION? OR DISEASE? OR DYSFUNCTION? OR DISFUNCTION? OR (DYS OR DIS OR MAL)())FUNCTION? OR MALFUNCTION? OR AILMENT? ? OR ILLNESS?? OR COMPLAINT? OR MALADY? OR MALADIES OR SICK OR SICKEN? OR SICKNESS? OR PROBLEM? ?)
S9	4	S S3(S)S4(S)S7:S8
S10	11	S S3 AND S4 AND S7:S8
S11	7	S S10 NOT S9
S12	6747	S S4(5N)S5
S13	3	S S3(S)S12(S)S7:S8
S14	0	S S13 NOT (S9 OR S11)
S15	47	S S6(5N)S7:S8
S16	47	S S3 AND S15
S17	4	S S3 AND S12 AND S7:S8
S18	41	S S16:S17 NOT (S9 OR S11)

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### Search Results

9/25,K/4 (Item 4 from file: 350)

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0009547165 & & *Drawing available*

WPI Acc no: 1999-492679/199941

XRPX Acc No: N1999-366877

**Peripheral neuropathy detection method**

Patent Assignee: LAUDADIO C (LAUD-I)

Inventor: LAUDADIO C

Patent Family ( 1 patents, 1 & countries )

Patent Number	Kind	Date	Update	Type
US 5931793	A	19990803	199941	B

US 5931793

Local Applications (no., kind, date): US 199619164 P 19960605; US 1997866214 A 19970530

Priority Applications (no., kind, date): US 199619164 P 19960605; US 1997866214 A 19970530

**Alerting Abstract US A**

NOVELTY - Peripheral neuropathy is detected by applying a pen-sized device with a vibrating head (40) to the extremities of the patient and determining whether the patient can feel the vibrations.

USE - For detecting peripheral neuropathy in a patient.

ADVANTAGE - The pen is inexpensive to manufacture and convenient to operate.

DESCRIPTION OF DRAWINGS - The drawing shows a cross sectional diagram of the pen-sized probe.

36 Batteries

38 DC motor

40 Vibrating head

**Original Abstracts:** A vibration **pocket device** is utilized for detecting severe **neuropathy**. The device is **generally** the size and shape of a conventional pen and includes a stimulus head or probe mounted at an end of the device. The head or probe is caused to **vibrate** and is applied to a patient's extremity in order to determine if the patient can feel the **vibration**. ...**Claims:**than the predetermined magnitude when the patient cannot feel the vibration, the vibration device including an elongated case with a spring clip for holding the **device** in a **pocket** by **interposing** fabric from the pocket between the spring clip and the case, actuating the probe by contacting an electrically conductive surface in the case with the...

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## Foreign & International Patent Search – refocus

### Search Strategy

Set	Items	Description
S1	724322	S TELEPHONE? OR PHONE? ? OR COMMUNICAT? (2N) DEVICE? ? OR CELLPHONE? OR MOBILEPHONE? OR CELLULARPHONE? OR SMARTPHONE? OR IPHONE? ? OR PAGER? ? OR BEEPER? ?
S2	175653	S PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? OR PALM()(PILOT? OR OS) OR PALMPILOT? OR PALMTOP? OR PALM()TOP OR TREO? ? OR (HANDHELD OR HAND()HELD OR PORTAB? OR POCKET OR NOTEBOOK OR NOTE()BOOK) (2N) (PC OR PCS OR COMPUTER? ? OR CALCULATOR?) OR (HANDHELD OR HAND()HELD) (2N)DEVICE? ? OR POCKETPC? OR WINDOWS()CE OR SONY()VISOR OR BLACKBERRY? OR BLACK()BERRY? ? OR MP3()PLAYER? ? OR IPOD? ? OR WALKMAN OR WALK()MAN
S3	795517	S S1:S2
S4	24469	S VIBRAT? OR OSCILLAT? OR PULSAT?
S5	54431	S SOUND? ? OR ACOUSTIC? OR MUSIC? ?
S6	98189	S FREQUENCY? OR FREQUENCIES OR MAGNITUDE? OR INTENSITY? OR INTENSITIES OR FORCE? OR LOUD OR LOUDER OR LOUDEST OR LOUDNESS
S7	70381	S FEEL??? OR TOUCH??? OR TACTILE? OR HAPTIC???? OR CONTACT???
S8	215406	S DIAGNOS? OR TEST OR TESTS OR TESTED OR TESTING OR SCREEN??? OR ASSESS? OR EXAM? ? OR EXAMIN? OR DETECT? OR SENSE? ? OR SENSING OR SENSOR? ? OR EVALUAT? OR PREDICT?
S9	30	S NEUROPATH? OR MONONEUROPATH? OR POLYNEUROPATH? OR POLYRADICULONERUOPATH? OR RADICULONEUROPATH? OR ENCEPHALOPATHY? OR MYLEPATH? OR NEURITIS? OR NEURITID? OR MONONEURITIS? OR MONONEURITID? OR POLYNEURITIS? OR POLYNEURITID? OR GUILLAIN?() (BARR OR BARRE) OR GUILLAINBARR? OR AIDP OR MILLER()FISHER
S10	1051	S NEUROLOG? OR NERVE? ? OR NERVOUS()SYSTEM OR CNS OR BRAIN
S11	30	S S3 AND S9
S12	10662	S (S4:S5 OR S7) (5N)S6
S13	164	S S8(5N)S10
S14	6	S S3(S)S12(S)S13
S15	6	S S14 NOT S11
S16	25	S S3(S) (S4:S5 OR S7) (S)S13
S17	19	S S16 NOT (S11 OR S15)
S18	11	S S3 AND S12 AND S13
S19	3	S S18 NOT (S11 OR S15 OR S17)

[File 350] **Derwent WPIX** 1963-2008/UD=200911

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### Search Results

11/25,K/23 (Item 23 from file: 350)

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0013512948 & & *Drawing available*

WPI Acc no: 2003-605773/200357



Related WPI Acc No: 2003-287555

XRAM Acc no: C2003-164885

XRPX Acc No: N2003-482909

**Glucose meter for managing and controlling e.g. Type I diabetes, has input device, processor, output device, connector, and modular housing**

Patent Assignee: GUIDANCE INTERACTIVE TECHNOLOGIES INC (GUID-N)

Inventor: WESSEL P

Patent Family ( 2 patents, 1 & countries )

Patent Number	Kind	Date	Update	Type
US 20030050537	A1	20030313	200357	B
US 6699188	B2	20040302	200417	E

US 20030050537

Local Applications (no., kind, date): US 2000213422 P 20000622; US 2001884968 A 20010621; US 2002116696 A 20020403; US 2002116696 A 20020403

Priority Applications (no., kind, date): US 2000213422 P 20000622; US 2001884968 A 20010621; US 2002116696 A 20020403

#### **Alerting Abstract US A1**

NOVELTY - A glucose meter comprising:

an input device to receive physiological input from patient;  
 a processor to produce blood glucose value based on physiological input and to generate electrical signal related to blood glucose value;  
 an output device to transmit blood glucose value directly to a user of glucose meter;  
 a connector to connect the glucose meter to electronic controller; and  
 a modular housing.

DESCRIPTION - A glucose meter consists of input device, processor, output device, connector, and modular housing. The input device receives physiological input from a patient. The processor is operatively coupled with the input device and produces blood glucose value based on the physiological input received by the input device. The processor also generates electrical signal related to the blood glucose value. The output device is operatively coupled to the processor and transmits the blood glucose value directly to a user of the glucose meter. The connector connects the glucose meter to an electronic controller distinct from the glucose meter. It conveys an electrical signal related to the electrical signal generated by the processor to the electronic controller. The modular housing supports the processor and output device. The housing is designed for insertion into or connection with the electronic controller such that the connector can automatically align with and connect to the electronic controller for conveying of electrical signal to motivate or reward the patient.

INDEPENDENT CLAIMS are also included for:

an apparatus for encouraging compliance with medical monitoring or treatment, comprising a medical circuitry for generating medical monitoring or treatment parameter(s), a power supply for powering the medical circuitry, and a motivation circuitry for rewarding and/or motivating a patient coupled with the medical circuitry;  
 a handheld video game system comprising a video-game controller (20) for receiving game cartridges and having a first display (30) for entertaining the patient, and a medical diagnostic cartridge (50) for receipt by the

video-game controller and comprising a second display (60) for displaying medical information (65) to the patient;  
 a method of rewarding a patient for a medical test by generating medical test data based on a medical test, transferring the medical test data for use by reward firmware, and providing reward information to the patient for rewarding the patient for conducting the medical test or for maintaining results of medical test within specified parameters;  
 a medical testing and reward apparatus comprising a medical testing device, a reward-based incentive device coupled with the medical testing device, and a mechanism for correlating how well a patient follows a testing regimen or achieves a certain test results using the medical testing device with a reward level provided to the patient by the reward-based incentive device;  
 a method of medical data transmission by generating medical data using a medical monitoring device in the form of cartridge, connecting the cartridge to a cellular **telephone**, transmitting the medical data via a pre-existing cellular **telephone** network to a remote location, and transmitting a message from the **remote** location to the cellular **telephone** to provide direct feedback regarding the medical data; and  
 a method of motivating a patient by receiving medical data from the patient, generating a reward code based on the medical data, and motivating the patient to manage a medical condition related to the medical data using the reward code.

USE - For use in managing and controlling e.g. Type I diabetes.

ADVANTAGE - The glucose meter is user-friendly and socially acceptable to children.

DESCRIPTION OF DRAWINGS - The figure is a perspective view of handheld video game system.

20 Video-game controller

30 First display

50 Medical diagnostic cartridge

60 Second display

65 Medical information

80 Glucose test strip

**Technology Focus** ...but not the second processor or electronics. The second processor is powered by the connector. The electronic controller is a handheld video game controller, cellular **telephone**, **personal digital assistant**, or palm-sized or smaller computing device. The medical testing and reward apparatus also includes a security device coupled with the medical testing device. The... heart-rate test, body-fat test, prescription-adherence test, medical-laboratory test, body-weight test, chemotherapy-based test, temperature-based test, kidney-dialysis test, or **neuropathy** test.

**Original Abstracts:**to maintain medical test results within certain levels. The cartridge can be inserted into an electronic controller, e.g. a handheld video-game controller, cellular **telephone**, or other device. **Transmission** of data and/or encouragement to and from a remote location provides additional advantages... to maintain medical test results within certain levels. The cartridge can be inserted into an electronic controller, e.g. a handheld video-game controller, cellular **telephone**, or other **device**. **Transmission** of data and/or **encouragement** to and from a remote location provides additional advantages. ...**Claims:**to generate an electrical signal related to the blood glucose value;an output device operatively coupled with the processor, the output device being adapted to **communicate** the blood **glucose** value directly to a user of the glucose meter;a connector for connecting the glucose meter to an electronic controller distinct from the glucose meter... What is

claimed is:1. A medical monitoring system comprising:a **hand held** computing **device** comprising an input device, an operating system, a power supply, and a physical interface connection for loading of different software programs; anda module comprising:a medical testing **device for** performing a medical test;medical diagnostic circuitry, operably coupled with the medical testing device, for performing medical analysis;video game circuitry for motivating or rewarding a user... .. testing results data for determination of reward data to motivate the user, the video game circuitry further being adapted to receive electrical input from the **hand held** computing **device**;a housing for both the medical diagnostic circuitry and the video game circuitry;a display on the housing for displaying medical testing results;an interface that provides a physical connection between the module and the physical **interface connection of the hand held** computing **device** to send reward data to the **hand held** computing **device**; anda module power supply within the medical diagnostic circuitry;wherein the module comprises a stand-alone medical testing cartridge adapted for insertion into the **hand held** computing **device**.>

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## NPL Database Search #1

### Search Strategy

Set	Items	Description
S1	950	SELECT ((CELL OR CELLULAR OR MOBILE OR SMART)())(TELEPHONE? OR PHONE? ?) OR SMARTPHONE? OR CELLPHONE? OR MOBILEPHONE? OR CELLULARPHONE? OR PAGER? ? OR BEEPER? ? OR PDA OR PERSONAL()DIGITAL()ASSISTANT? OR IPOD? ? OR ITOUCH? ? OR IPHONE? OR BLACKBERRY? OR BLACK()BERRY? ?) AND (NEUROPATH? OR NEURITIS? OR NEURITID?)
S2	493	S S1 AND DIABET?
S3	101	S S2/2004:2005
S4	144	S S2/2006:2007
S5	16	S S2/2008:2009
S6	232	S S2 NOT S3:S5
S7	146	RD (unique items)
S8	1011412	S (DIAGNOS? OR TEST OR TESTS OR TESTED OR TESTING OR SCREEN??? OR ASSESS? OR EXAM? ? OR EXAMIN? OR DETECT? OR SENSE? ? OR SENSING OR SENSOR? ? OR EVALUAT? OR PREDICT?) (10N) (NEUROPATH? OR NEURITIS? OR NEURITID? OR NEUROLOGIC? OR NERVE? ? OR NERVOUS()SYSTEM OR CNS)
S9	213	S S1 AND S8
S10	77	S S9 NOT S2
S11	58	RD (unique items)

[File 996] **Newsroom 2000-2003**

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[File 148] **Gale Group Trade & Industry DB** 1976-2009/Feb 10

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[File 636] **Gale Group Newsletter DB(TM)** 1987-2009/Feb 04

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[File 16] **Gale Group PROMT(R)** 1990-2009/Feb 04

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[File 440] **Current Contents Search(R)** 1990-2009/Feb 25

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[File 613] **PR Newswire** 1999-2009/Feb 25

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[File 149] **TGG Health&Wellness DB(SM)** 1976-2009/Jan W3

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[File 9] **Business & Industry(R)** Jul/1994-2009/Feb 23  
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[File 47] **Gale Group Magazine DB(TM)** 1959-2009/Feb 16  
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[File 813] **PR Newswire** 1987-1999/Apr 30  
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[File 129] **PHIND(Archival)** 1980-2009/Feb W2  
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[File 471] **New York Times Fulltext** 1980-2009/Feb 24  
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[File 570] **Gale Group MARS(R)** 1984-2009/Feb 04  
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[File 610] **Business Wire** 1999-2009/Feb 25  
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[File 34] **SciSearch(R) Cited Ref Sci** 1990-2009/Feb W2  
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[File 45] **EMCare** 2009/Feb W1  
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[File 80] **TGG Aerospace/Def.Mkts(R)** 1982-2009/Jan 30  
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[File 162] **Global Health** 1983-2009/Feb W3  
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[File 465] **Incidence & Prevalence** 2008/Q4  
(c) 2009 Timely Data Resources. All rights reserved.

[File 648] **TV and Radio Transcripts** 1997-2009/Feb W4  
(c) 2009 FDCH Inc. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2009/Jan 30  
(c) 2009 Gale/Cengage. All rights reserved.

[File 703] **USA Today** 1989-2009/Feb 24  
(c) 2009 USA Today. All rights reserved.

[File 441] **ESPICOM Pharm&Med DEVICE NEWS** 2009/Dec W3  
(c) 2009 ESPICOM Bus.Intell. All rights reserved.

[File 433] **Charleston Newspapers** 1997-2009/Feb 23  
(c) 2009 Charleston Newspapers. All rights reserved.

[File 710] **Times/Sun.Times(London)** Jun 1988-2009/Feb 11  
(c) 2009 Times Newspapers. All rights reserved.  
[File 455] **Drug News & Perspectives** 1992-2005/Aug  
(c) 2005 Prous Science. All rights reserved.  
[File 634] **San Jose Mercury** Jun 1985-2009/Feb 20  
(c) 2009 San Jose Mercury News. All rights reserved.

### Search Results

No relevant results.

## NPL Database Search #2

### Search Strategy

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S1          354    SELECT ((CELL OR CELLULAR OR MOBILE)() (TELEPHONE? OR PHONE?
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OR PAGER? ? OR BEEPER? ? OR PDA OR PERSONAL()DIGITAL()ASSISTANT? OR IPOD? ?
OR ITOUCH? ? OR IPHONE? OR BLACKBERRY? OR BLACK()BERRY? ?) (50N) (NEUROPATH?
OR NEURITIS? OR NEURITID?)
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S3          49     RD  (UNIQUE ITEMS)

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[File 20] Dialog Global Reporter 1997-2009/Feb 25
(c) 2009 Dialog. All rights reserved.
[File 73] EMBASE 1974-2009/Feb 24
(c) 2009 Elsevier B.V. All rights reserved.
[File 34] SciSearch(R) Cited Ref Sci 1990-2009/Feb W2
(c) 2009 The Thomson Corp. All rights reserved.
[File 155] MEDLINE(R) 1950-2009/Feb 20
(c) format only 2009 Dialog. All rights reserved.
[File 45] EMCare 2009/Feb W1
(c) 2009 Elsevier B.V. All rights reserved.
[File 148] Gale Group Trade & Industry DB 1976-2009/Feb 10
(c) 2009 Gale/Cengage. All rights reserved.
[File 16] Gale Group PROMT(R) 1990-2009/Feb 04
(c) 2009 Gale/Cengage. All rights reserved.
[File 5] Biosis Previews(R) 1926-2009/Feb W3
(c) 2009 The Thomson Corporation. All rights reserved.
[File 613] PR Newswire 1999-2009/Feb 25
(c) 2009 PR Newswire Association Inc. All rights reserved.
[File 621] Gale Group New Prod.Annou. (R) 1985-2009/Jan 20
(c) 2009 Gale/Cengage. All rights reserved.
[File 996] Newsroom 2000-2003
(c) 2008 Dialog. All rights reserved.
[File 156] ToxFile 1965-2009/Feb W3
(c) format only 2009 Dialog. All rights reserved.
[File 71] ELSEVIER BIOBASE 1994-2009/Feb W3
(c) 2009 Elsevier B.V. All rights reserved.
[File 144] Pascal 1973-2009/Feb W3
(c) 2009 INIST/CNRS. All rights reserved.
[File 149] TGG Health&Wellness DB(SM) 1976-2009/Jan W3
(c) 2009 Gale/Cengage. All rights reserved.
[File 164] Allied & Complementary Medicine 1984-2009/Jan
(c) 2009 BLHCIS. All rights reserved.
[File 91] MANTIS(TM) 1880-2008/Aug
2001 (c) Action Potential. All rights reserved.
[File 11] PsycINFO(R) 1887-2009/Feb W3
(c) 2009 Amer. Psychological Assn. All rights reserved.
[File 610] Business Wire 1999-2009/Feb 25
(c) 2009 Business Wire. All rights reserved.
[File 636] Gale Group Newsletter DB(TM) 1987-2009/Feb 04
(c) 2009 Gale/Cengage. All rights reserved.
[File 35] Dissertation Abs Online 1861-2009/Jan
(c) 2009 ProQuest Info&Learning. All rights reserved.
[File 88] Gale Group Business A.R.T.S. 1976-2009/Feb 24
(c) 2009 Gale/Cengage. All rights reserved.

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[File 8] **Ei Compendex(R)** 1884-2009/Feb W3  
(c) 2009 Elsevier Eng. Info. Inc. All rights reserved.  
[File 24] **CSA Life Sciences Abstracts** 1966-2009/Apr  
(c) 2009 CSA. All rights reserved.  
[File 162] **Global Health** 1983-2009/Feb W3  
(c) 2009 CAB International. All rights reserved.  
[File 285] **BioBusiness(R)** 1985-1998/Aug W1  
(c) 2006 The Thomson Corporation. All rights reserved.  
[File 484] **Periodical Abs Plustext** 1986-2009/Jan W3  
(c) 2009 ProQuest. All rights reserved.  
[File 15] **ABI/Inform(R)** 1971-2009/Feb 23  
(c) 2009 ProQuest Info&Learning. All rights reserved.  
[File 135] **NewsRx Weekly Reports** 1995-2009/Feb W1  
(c) 2009 NewsRx. All rights reserved.  
[File 136] **BioEngineering Abstracts** 1966-2007/Jan  
(c) 2007 CSA. All rights reserved.  
[File 441] **ESPICOM Pharm&Med DEVICE NEWS** 2009/Dec W3  
(c) 2009 ESPICOM Bus.Intell. All rights reserved.  
[File 781] **ProQuest Newsstand** 1998-2009/Feb 25  
(c) 2009 ProQuest Info&Learning. All rights reserved.  
[File 2] **INSPEC** 1898-2009/Feb W3  
(c) 2009 Institution of Electrical Engineers. All rights reserved.  
[File 9] **Business & Industry(R)** Jul/1994-2009/Feb 23  
(c) 2009 Gale/Cengage. All rights reserved.  
[File 138] **Physical Education Index** 1990-2009/Apr  
(c) 2009 CSA. All rights reserved.  
[File 275] **Gale Group Computer DB(TM)** 1983-2009/Jan 30  
(c) 2009 Gale/Cengage. All rights reserved.  
[File 420] **UnCover** 1988-2001/May 31  
(c) 2001 The UnCover Company. All rights reserved.  
[File 444] **New England Journal of Med.** 1985-2009/Nov W1  
(c) 2009 Mass. Med. Soc. All rights reserved.  
[File 471] **New York Times Fulltext** 1980-2009/Feb 24  
(c) 2009 The New York Times. All rights reserved.  
[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13  
(c) 2002 Gale/Cengage. All rights reserved.  
[File 631] **Boston Globe** 1980-2009/Feb 22  
(c) 2009 Boston Globe. All rights reserved.  
[File 635] **Business Dateline(R)** 1985-2009/Feb 24  
(c) 2009 ProQuest Info&Learning. All rights reserved.  
[File 646] **Consumer Reports** 1982-2009/Jan  
(c) 2009 Consumer Union. All rights reserved.

## Search Results

No relevant results.



## Advanced Search

### 1. Database

Select patent database:

Worldwide 

### 2. Search terms

Enter keywords in English

Keyword(s) in title:	<input type="text"/>	plastic and bicycle
Keyword(s) in title or abstract:	<input type="text" value="mobile* phone* hear* test*"/>	hair
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Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text"/>	H03M1/12

## Mobile terminal and mobile audiometer system

**Publication number:** US2004049125 (A1)

**Publication date:** 2004-03-11

**Inventor(s):** NAKAMURA NORIO [JP]

**Applicant(s):** NAKAMURA NORIO

**Classification:**

- international: A61B5/00; A61B5/12; H04M1/00; H04Q7/20; H04Q7/38;  
A61B5/00; A61B5/12; H04M1/00; H04Q7/20; H04Q7/38;  
(IPC1-7): A61B5/00

- European: A61B5/00B; A61B5/12B

**Application number:** US20030423856 20030425

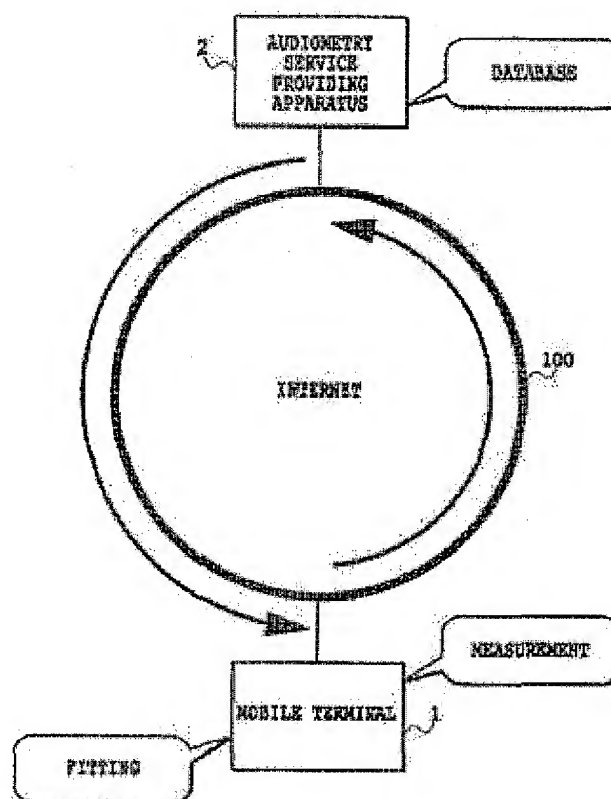
**Priority number(s):** JP20020231149 20020808

**Also published as:**

JP2004065734 (A)

### Abstract of US 2004049125 (A1)

A mobile audiometer system is provided which enables a client to undergo an audiometric test anytime and anywhere using a mobile terminal such as a mobile phone without visiting a hospital and the like equipped with an audiometer. The mobile audiometer system downloads an audiometry program from an audiometry service providing apparatus to a mobile terminal such as a mobile phone or personal computer via a mobile network and the Internet, thereby enabling the client to have the audiometric test using the mobile terminal. The audiometry service providing apparatus can estimate gain correction values for a hearing compensation from the test results. The estimated values are downloaded to the mobile terminal for carrying out the fitting for the communication speech.



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## Advanced Search

### 1. Database

Select patent database:

Worldwide 

### 2. Search terms

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Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

# MULTIMEDIA SYSTEM FOR HUMAN SENSORY EDUCATION AND ASSESSMENT

**Publication number:** WO03090176 (A1)

**Publication date:** 2003-10-30

**Inventor(s):** DAVIS DAVID M [US]

**Applicant(s):** SENSORY ARTS & SCIENCE LLC [US]; DAVIS DAVID M [US]

**Classification:**


- **international:** **A61B5/16; A61B5/16;** (IPC1-7): G08B21/00; A61B5/08; A61M21/00; G09G5/00; H04M11/00


- **European:** A61B5/16

**Application number:** WO2003US12545 20030421


**Priority number(s):** US20020374250P 20020419; US20030417988 20030417

**Also published as:**


 AU2003225120 (A1)


 US2004014018 (A1)


**Cited documents:**

 US5692906 (A)

 US5226086 (A)

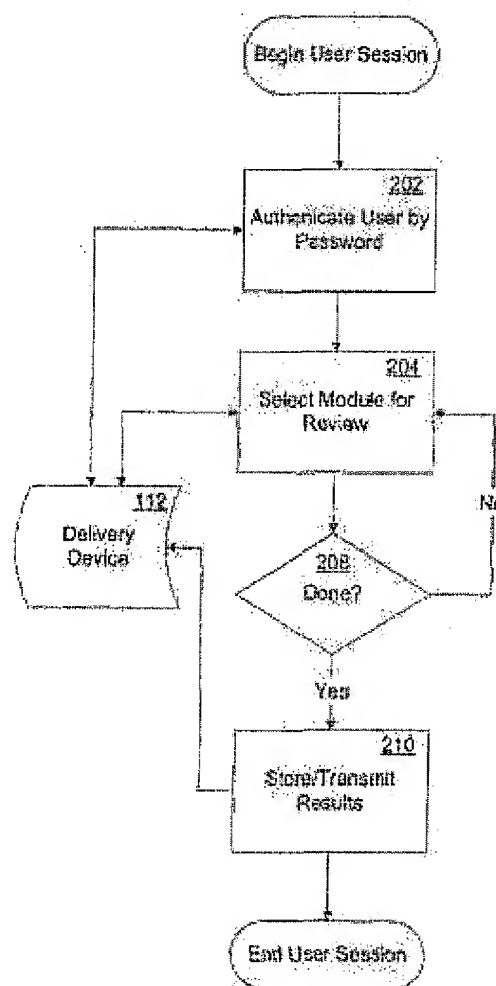
 US6557394 (B1)

 US6071123 (A)

 US6558322 (B1)

## Abstract of WO 03090176 (A1)

Multimedia systems and methods for human sensory education and assessment are disclosed. A system according to the invention may include an administrative sub-system, which may be a local or remote server, and a delivery device (112), which may be a local, micro-processor-based device, such as a PC, PDA, telephone. The delivery device may include one or more optional add-on devices that simulate a sense or provide enhanced sensory capabilities. The administrative sub-system may include a data store that may contain, for example: one or more respective content modules and test batteries associated with each of the human senses; assessment results and other information relating to the senses, users of the system, test subjects, etc., and a list of employees, students, or other users that can be given access to the stored information.; An administrator can dynamically create/customize, and download to the delivery device, one or more computer files that may include, for example, an extracted subset of information about the ensuing user's demographics, curriculum of selectable education modules, history of previously reviewed modules, previous assessment results, and other information the delivery device can access to pre-load information for the anticipated user session. The delivery device configures the downloaded modules to enable a user to study the educational modules (204) and perform sensory tests and assessments as provided in the downloaded file, and provides results data (210) to the administrative sub-system, which stores the results data for later retrieval and reporting by authorized persons.



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## Advanced Search

### 1. Database

Select patent database:

### 2. Search terms

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Keyword(s) in title or abstract:	<input type="text" value="mobil* phon* vibrat*"/>	hair
Publication number:	<input type="text" value=""/>	WO03075629
Application number:	<input type="text" value=""/>	DE19971031696
Priority number:	<input type="text" value=""/>	WO1995US15925
Publication date:	<input type="text" value=""/>	yyyymmdd
Applicant(s):	<input type="text" value=""/>	Institut Pasteur
Inventor(s):	<input type="text" value=""/>	Smith
European Classification (ECLA):	<input type="text" value=""/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## Mobile phone featuring audio-modulated vibrotactile module

**Publication number:** EP1246432 (A2)

**Publication date:** 2002-10-02

**Inventor(s):** AALTONEN OLLI [FI]; JAAESKELAEINEN SATU [FI];  
KARJALAINEN SEPPO [FI]; LANG HEIKKI [FI];  
HAEMAEINEN HEIKKI [FI]; OJALA STINA [FI];  
KAUKURANTA TERHO [FI]

**Applicant(s):** NOKIA CORP [FI]

**Classification:**

**- international:** G08B6/00; H04M1/247; H04M1/725; G08B6/00;  
H04M1/247; H04M1/72; (IPC1-7): H04M1/247; A61F11/04;  
A61L15/40; G08B6/00

**- European:** G08B6/00; H04M1/247D

**Application number:** EP20020005547 20020311

**Priority number(s):** US20010804486 20010312

### Also published as:

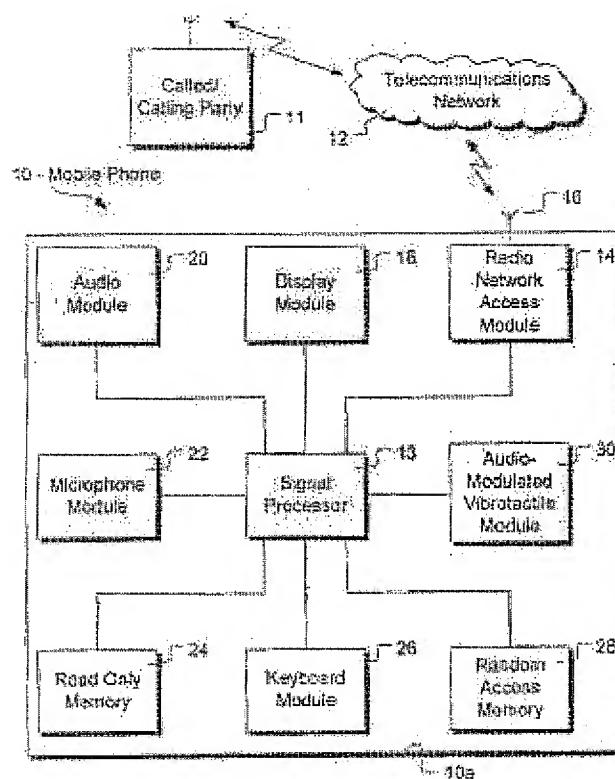
EP1246432 (A3)  
EP1246432 (B1)  
US2002128048 (A1)  
US6885876 (B2)  
DE60217987 (T2)

### Cited documents:

US5337364 (A)  
EP0226333 (A1)  
US4728934 (A)  
DE3834442 (C1)

### Abstract of EP 1246432 (A2)

A telecommunications network includes a mobile phone with an audio-modulated vibrotactile module that responds to a telecommunications signal containing information about incoming speech from a called/calling party, for providing an audio-modulated vibrotactile module force containing information about the incoming speech from the called/calling party to vibrate a user's fingers, facial skin, wrist, cheek or other suitable location. The audio-modulated vibrotactile module has an audio-to-vibrotactile converter that responds to the telecommunications signal, for providing an audio-to-vibrotactile converter signal containing information about a vibration modulation of the incoming speech from the called/calling party.; The audio-modulated vibrotactile module also has a vibrotactile actuator that responds to the audio-to-vibrotactile converter signal, for providing the audio-modulated vibrotactile module force in the form of a vibrotactile actuator force. The telecommunications system may also have the audio-to-vibrotactile converter. The vibrotactile actuator may be an electromechanical actuator arranged in the housing of the mobile phone for providing vibration to a user's fingers wrist or facial skin.



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## Advanced Search

### 1. Database

Select patent database:

Worldwide



### 2. Search terms

Enter keywords in English

Keyword(s) in title:	<input type="text"/>	plastic and bicycle
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Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

SEARCH

CLEAR



## Method and system for using personal digital assistants with diagnostic medical ultrasound systems

**Publication number:** US6475146 (B1)

**Publication date:** 2002-11-05

**Inventor(s):** FREIBURGER PAUL D [US]; RAMRAJ SANKARALINGAM [US]; SCHUMAN AARON J [US]

**Applicant(s):** SIEMENS MEDICAL SOLUTIONS [US]

**Classification:**

- international: A61B5/00; G01S15/89; G06F19/00; A61B8/00; A61B5/00; G01S15/00; G06F19/00; A61B8/00; (IPC1-7): A61B8/00

- European: G01S15/89D8; A61B5/00B; G06F19/00M3L

**Application number:** US20010962383 20010924

**Priority number(s):** US20010962383 20010924

**Cited documents:**

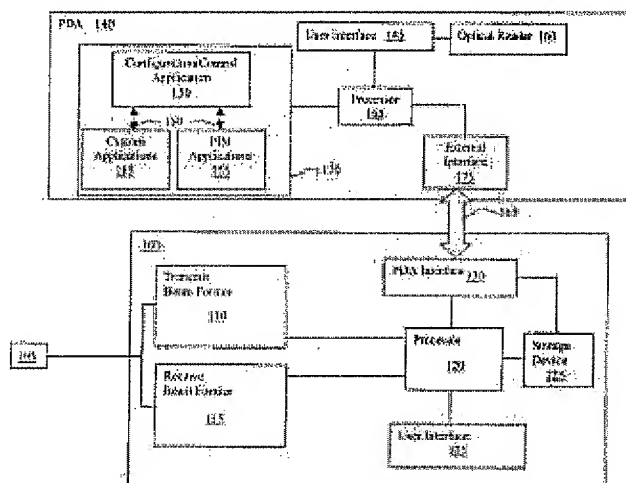
US6106472 (A)

US6195564 (B1)

US6252544 (B1)

### Abstract of US 6475146 (B1)

An system and method for incorporating the functionality of a personal digital assistant ("PDA") with a diagnostic medical ultrasound imaging system is disclosed. The PDA is capable of controlling the ultrasound system via a wired or wireless communications link. In addition, the personal information management ("PIM") functions of the PDA are integrated together and with the system control functionality to permit automated control and configuration of the ultrasound system based on data stored by the PIM applications.



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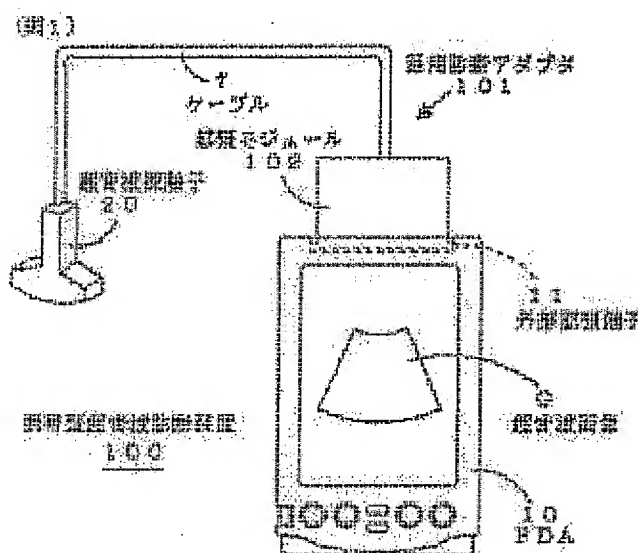
# MEDICAL DIAGNOSTIC ADAPTER, PORTABLE MEDICAL DIAGNOSTIC EQUIPMENT, AND PORTABLE ULTRASONIC DIAGNOSTIC EQUIPMENT

**Publication number:** JP2003033350 (A)  
**Publication date:** 2003-02-04  
**Inventor(s):** HONDA MASAYOSHI  
**Applicant(s):** GE MED SYS GLOBAL TECH CO LLC  
**Classification:**  
 - international: A61B8/00; A61B8/00; (IPC1-7): A61B8/00  
 - European:  
**Application number:** JP20010208687 20010710  
**Priority number(s):** JP20010208687 20010710

## Abstract of JP 2003033350 (A)

**PROBLEM TO BE SOLVED:** To provide an equipment capable of giving ultrasonic diagnosis to a body to be inspected regardless of where it is.

**SOLUTION:** A portable ultrasonic diagnostic equipment 100 is constituted by equipping with a medical diagnostic adapter 101 and a portable medical diagnostic equipment (PDA) 10. The medical diagnostic adapter 101 has an ultrasonic probe 20, an extension module 102 driving the ultrasonic probe 20 to collect medical information and send it to the PDA 10 and a cable 7 connecting the medical diagnostic adapter 101 with the ultrasonic probe 20. The extension module 102 is freely attachable and detachable to/from an external extension terminal 11 of the PDA 10. PDA 10 is a commercial one and an ultrasonic image G is displayed on its screen.



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## Advanced Search

### 1. Database

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### 2. Search terms

Enter keywords in English

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Keyword(s) in title or abstract:	<input type="text" value="mobile* phon* dlagnos*"/>	hair
Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
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Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## MULTIFUNCTIONAL MOBILE PHONE FOR MEDICAL DIAGNOSIS AND REHABILITATION.

**Publication number:** MXPA04008786 (A)

**Publication date:** 2005-06-17

**Inventor(s):** NOWOSIELSKI JANUSZ [AU]

**Applicant(s):** ERA CT PTY LTD [AU]

**Classification:**

- international: A61B3/06; A61B3/032; A61B5/00; A61B5/01; A61B5/12; H04B7/26; H04M11/00; H04M1/725; A61B3/02; A61B5/00; A61B5/01; A61B5/12; H04B7/26; H04M11/00; H04M1/72; (IPC1-7): A61B5/00; H04M1/247

- European: A61B5/12B; A61B3/032; A61B3/06D; A61B5/00B

**Application number:** MX2004PA08786 20040910

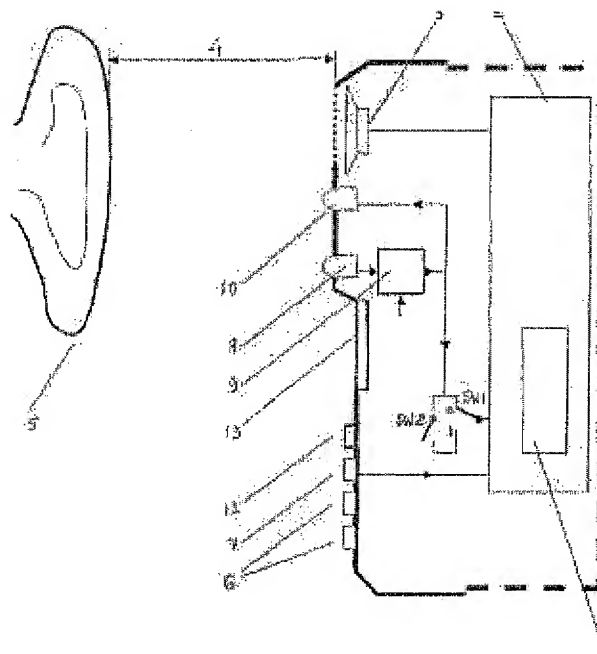
**Priority number(s):** AU2002PS01048 20020312; AU2002PS01547 20020405; AU20020952203 20021022; AU20020952883 20021125; WO2003AU00278 20030311

**Also published as:**

WO03077511 (A1)  
US2005124375 (A1)  
JP2005519686 (T)  
EP1488618 (A1)  
EP1488618 (A4)

### Abstract of MX PA04008786 (A)

The multifunctional mobile phone performs the hearing and vision tests, through the built in or externally connected devices monitors, measures and collects data of body and environmental temperature, heart beating, lung respiration, cardiac and pulmonary auscultation, sugar level, blood pressure etc., takes body photo images for the clinical assessment, displays on screen and plays back through the acoustic output instructions to conduct the diagnostic test and rehabilitation treatments, stores and updates programs for the tests and treatments and communicates with the remote medical specialist using the mobile phone network.



Data supplied from the esp@cenet database — Worldwide

## Monitoring system for patients

**Publication number:** US2003009088 (A1)

**Publication date:** 2003-01-09

**Inventor(s):** KORTH UWE [DE]; WOLF ALEXANDER [DE]

**Applicant(s):** KORTH UWE, ; WOLF ALEXANDER

**Classification:**

- **international:** **A61B5/00**; A61B5/0205; A61B5/021; **A61B5/00**; A61B5/0205; A61B5/021; (IPC1-7): A61B5/00

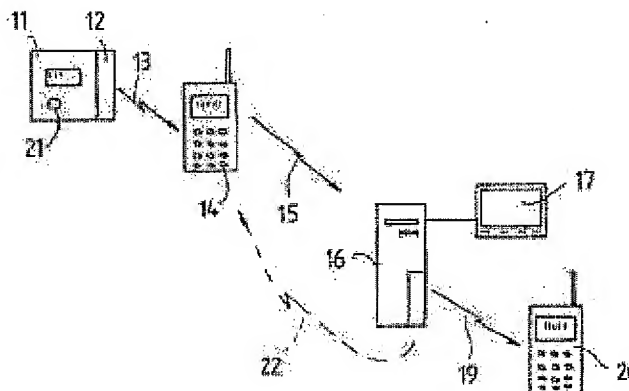
- **European:** A61B5/00B4

**Application number:** US20020115884 20020404

**Priority number(s):** DE20012005926U 20010404; DE20011056167 20011117

### Abstract of **US 2003009088 (A1)**


The invention concerns a monitoring system for patients with at least one measuring device for medical and diagnostic values of the patient such as blood pressure, pulse, body temperature, blood sugar and the like, which measuring device is carried and operated by the patient. According to the invention it is proposed that the measuring device feature at least one transmitter for the wireless transmission of the recorded values to at least one local receiver. In this arrangement, it is particularly advantageous if the receiver is integrated into a mobile phone, which sends the recorded values to a central data processing device via a mobile telephone network.



Data supplied from the **esp@cenet** database — Worldwide

## Advanced Search

### 1. Database

Select patent database:  

### 2. Search terms

Enter keywords in English

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Keyword(s) in title or abstract:	<input type="text" value="cell* phon* vibrat*"/>	hair
Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## MASSAGING TOOL

**Publication number:** JP2004073365 (A)

**Publication date:** 2004-03-11

**Inventor(s):** TAJIMA YUKINOBU

**Applicant(s):** PIXEN INC

**Classification:**

- international: A61H23/02; H04M1/00; H04M1/02; H04M1/21; H04M1/725; A61H23/02; H04M1/00; H04M1/02; H04M1/21; H04M1/72; (IPC1-7): A61H23/02; H04M1/00; H04M1/02; H04M1/21; H04M1/725

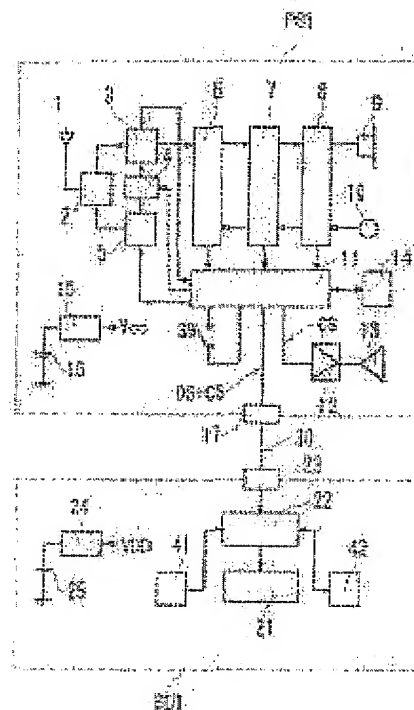
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**Application number:** JP20020235644 20020813


**Priority number(s):** JP20020235644 20020813

### Abstract of JP 2004073365 (A)

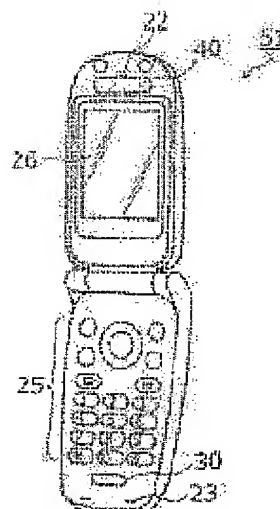
**PROBLEM TO BE SOLVED:** To provide a massaging tool which eases tautness and mental stress occurring while using a cellular phone. ; **SOLUTION:** This massaging tool is provided with a vibration generation means BU1 consisting of a body separated from the phone body of a cellular phone set PS 1; a call incoming information signal generation means which receives a call incoming signal transmitted from a base station and generates a call incoming information signal CS when the call incoming signal is transmitted toward its own device; a transmission information control means for generating a transmission signal OS to be transmitted to the base station in the case of discriminating that a transmission switch is depressed; and a control circuit 11 for sending a control signal to the generation means BU1 in response to the call incoming information signal CS and the transmission signal OS. ; The call incoming information signal CS and the transmission signal OS generated from the call incoming information control means are inputted to the generation means BU1, which generates vibration for a fixed time during the speech with the set PS1 using the call incoming information signal CS and the transmission signal OS. ; **COPYRIGHT:** (C)2004,JPO



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**CELLULAR PHONE WITH BUILT-IN BIO-SENSOR****Publication number:** JP2005073763 (A)**Publication date:** 2005-03-24**Inventor(s):** TAKIGAWA SHINICHI; UCHIDA SHINJI**Applicant(s):** MATSUSHITA ELECTRIC IND CO LTD**Classification:****- international:** *A61B5/145; A61B5/1455; H04M1/00; A61B5/145; H04M1/00;*  
(IPC1-7): A61B5/145; H04M1/00**- European:****Application number:** JP20030304938 20030828**Priority number(s):** JP20030304938 20030828**Also published as:** JP4208186 (B2)**Abstract of JP 2005073763 (A)**

**PROBLEM TO BE SOLVED:** To provide a compact cellular phone with a built-in bio-sensor which is capable of measuring a blood sugar level, is portable and sanitary, reduces a psychological burden at measurement, and is easy to operate for the measurement.



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**PORTABLE APPARATUS HAVING BIO-MEASUREMENT DEVICE WHICH CONVERGES BIO-MEASUREMENT DEVICE INTO PORTABLE APPARATUS**

**Publication number:** KR20050008972 (A)  
**Publication date:** 2005-01-24  
**Inventor(s):** PARK SEUNG HUN  
**Applicant(s):** CODISOFT CO LTD; PARK SEUNG HUN  
**Classification:**  
- **international:** **A61B5/04; A61B5/04;** (IPC1-7): A61B5/04  
- **European:**  
**Application number:** KR20030047859 20030714  
**Priority number(s):** KR20030047859 20030714

**Abstract of KR 20050008972 (A)**

**PURPOSE:** A portable apparatus having a bio-measurement device is provided to converge a bio-measurement device into a portable apparatus such as a cellular phone and a PDA(Personal Digital Assistant). **CONSTITUTION:** A portable apparatus(20) includes a central processor(22), a storage (23), a display(24), a plurality of electrodes(11,12,13,14), a piezoelectric sensor(15,16), and a measuring circuit(21). The electrodes are implemented to be exposed to outside to measure an electrocardiogram and/or a body fat. The piezoelectric sensor detects a vibrating pulse from a cardiovascular tube at a finger tip and generates an electric signal. The measuring circuit generates an analog AC signal to detect a body fat on the electrodes, or processes the output signals from the electrodes or the piezoelectric sensor. The central processor analyzes the signals and displays the result on the display.

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## Advanced Search

### 1. Database

Select patent database:

### 2. Search terms

Enter keywords in English

Keyword(s) in title:	<input type="text"/>	plastic and bicycle
Keyword(s) in title or abstract:	<input type="text" value="cell* phon* diagnos*"/>	hair
Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## PSYCHOLOGICAL DIAGNOSTIC SYSTEM

**Publication number:** JP2004049855 (A)

**Publication date:** 2004-02-19

**Inventor(s):** MIDORIKAWA KOKI

**Applicant(s):** BNC KK; MIDORIKAWA KOKI

**Classification:**

- international: A61B5/01; A61B5/00; A61B5/0245; A61B5/05; A61B5/16; G06Q10/00; G06Q50/00; H04M1/00; H04M11/00; A61B5/01; A61B5/00; A61B5/024; A61B5/05; A61B5/16; G06Q10/00; G06Q50/00; H04M1/00; H04M11/00; (IPC1-7): A61B5/16; A61B5/00; A61B5/0245; A61B5/05; G06F17/60; H04M1/00; H04M11/00

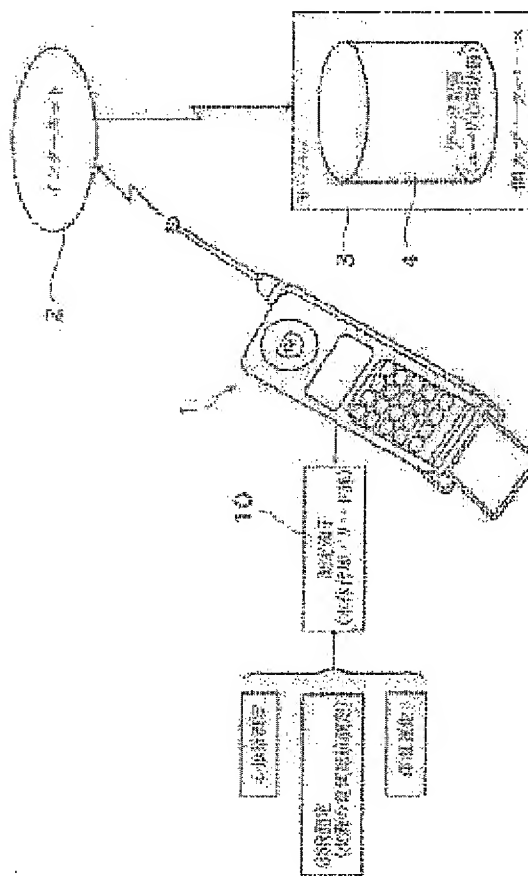
- European:

**Application number:** JP20020244347 20020722

**Priority number(s):** JP20020244347 20020722

### Abstract of JP 2004049855 (A)

**PROBLEM TO BE SOLVED:** To provide a psychological diagnostic system that enables anyone to easily diagnose and accurately clarify his present state of mind, use the results as guidelines of his/her behaviors, or the like, and make efforts by his/her self-discipline for nearing his/her ideal state of mind. ; **SOLUTION:** A cellular phone 1 is provided with a measuring terminal to measure heart rate, bodily temperature, GSR (galvanic skin response), or the like. The user applies these data as a means to detect his present psychological conditions, transmits the contents of detection to a server 3 as the main server of a psychological state diagnosis system, via the Internet 2 and stores them in his/her personal database 4 there. A diagnostic program contained in the server makes an accurate diagnosis of his/her personal psychological conditions, i.e., intracerebral conditions, and the server transmits the results to his cellular phone, allowing him/her to accurately grasp his/her present state of mind. The server also has an orientation program, enabling the user to compare his/her present state with a state of mind which he/she believes to be ideal and giving him/her the direction to near it. ; COPYRIGHT: (C)2004,JPO



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# DIAGNOSTIC AND EMERGENCY MEDICAL CARE SYSTEM FOR HEART DISEASES UTILIZING CELLULAR PHONE

**Publication number:** JP2002219109 (A)

**Publication date:** 2002-08-06

**Inventor(s):** ITO KANICHI

**Applicant(s):** ITO KANICHI

**Classification:**

**- International:** A61B5/00; A61B5/04; A61B5/0402; A61B5/0404; A61N1/39; G06Q10/00; G06Q50/00; G08B25/04; G08B25/08; G08B25/10; A61B5/00; A61B5/04; A61B5/0402; A61N1/39; G06Q10/00; G06Q50/00; G08B25/01; G08B25/08; G08B25/10; (IPC1-7): A61B5/00; A61B5/04; A61B5/0402; A61B5/0404; A61N1/39; G06F17/60; G08B25/04; G08B25/08; G08B25/10

**- European:**

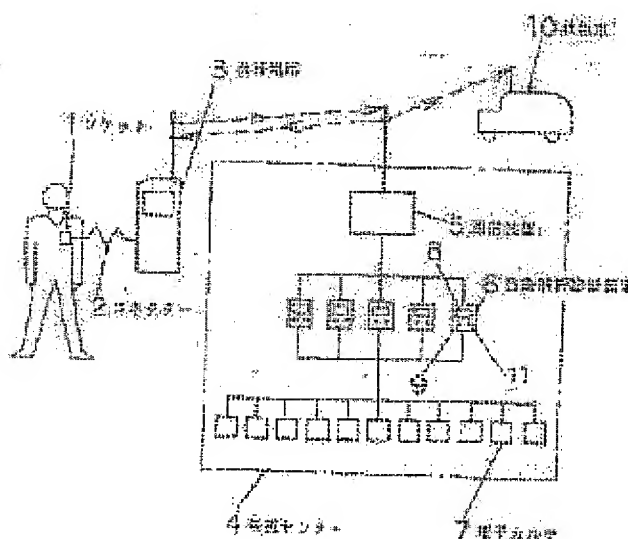
**Application number:** JP20010057468 20010125

**Priority number(s):** JP20010057468 20010125

## Abstract of JP 2002219109 (A)

**PROBLEM TO BE SOLVED:** To provide a means for resolving the problems associated with Holter's conventional ECG method that often causes a delay in emergency medical care since it takes time from recording to diagnosis or causes a patient's severe pain due to erroneous operation of a defibrillator to be prepared for ventricular fibrillation, or the like.

**SOLUTION:** The system utilizes an automatic multiprecision diagnostic analyzer from computerized ECG information and cellular phone, where the patient's ECG information is transmitted to an automatic diagnostic analyzer at a supervisory center by cellular phone, and the result of which is automatically recorded in an electronic clinical chart and simultaneously referred to a hospital and an ambulance in a close distance when urgent medical treatment is required.; In particular, when the patient is equipped with a defibrillator, erroneous operations are reduced and the patient's reliability is enhanced by providing a remote-controlled instruction from the supervisory center as to an order of operational priorities of the defibrillator.



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## Advanced Search

### 1. Database

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### 2. Search terms

Enter keywords in English

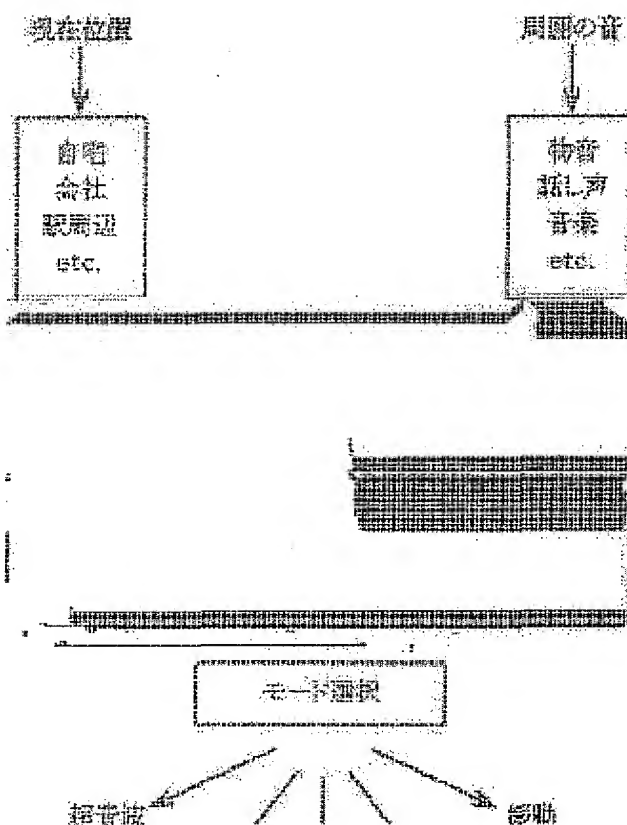
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Keyword(s) in title or abstract:	<input type="text" value="telephon* vibrat*"/>	hair
Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

# PORTABLE TELEPHONE SET AND PROGRAM FOR PORTABLE TELEPHONE SET

**Publication number:** JP2006136464 (A)  
**Publication date:** 2006-06-01  
**Inventor(s):** ISHII SAORI  
**Applicant(s):** NEC COMMUNICATION SYST  
**Classification:**  
 - international: A61M21/02; A61M21/00  
 - European:  
**Application number:** JP20040327839 20041111  
**Priority number(s):** JP20040327839 20041111

## Abstract of JP 2006136464 (A)

**PROBLEM TO BE SOLVED:** To automatically select a biological stimulation signal suited to the condition of a user without providing a sensor for detecting biological reaction. ; **SOLUTION:** A portable telephone set which outputs two or more kinds of the biological stimulation signals (optical signals, sound signals, vibration signals, ultrasonic signals and electromagnetic wave signals, etc., for inducing brain waves of a prescribed frequency band) is provided with a present position specifying means (GPS reception part 10) for specifying a present position, a sound detection means (microphone 33 for communication) for detecting surrounding sound, and an automatic signal selection means (control part 60) for automatically selecting the biological stimulation signal on the basis of the present position and the surrounding sound. ; **COPYRIGHT:** (C)2006,JPO&NCIP



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**BONE CONDUCTION VIBRATING ACTUATOR AND PORTABLE ELECTRONIC APPARATUS**

**Publication number:** JP2003145048 (A)

**Publication date:** 2003-05-20

**Inventor(s):** TEJIMA MAKOTO

**Applicant(s):** NEC TOKIN CORP

**Classification:**

- international: A61F9/08; A61F11/00; A61F11/04; B06B1/06; H02N2/00; H04M1/02; H04M1/03; A61F9/08; A61F11/00; B06B1/06; H02N2/00; H04M1/02; H04M1/03; (IPC1-7): B06B1/06; A61F9/08; A61F11/00; A61F11/04; H02N2/00; H04M1/02; H04M1/03

- European:

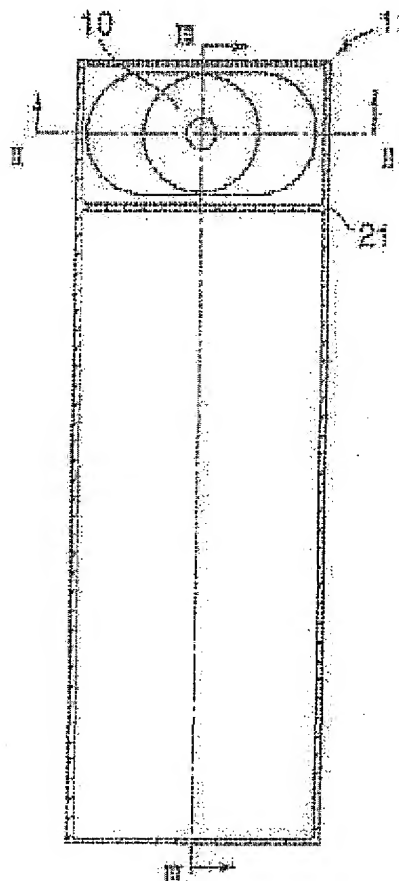
**Application number:** JP20010351879 20011116

**Priority number(s):** JP20010351879 20011116

**Abstract of JP 2003145048 (A)**

**PROBLEM TO BE SOLVED:** To inexpensively achieve a voice speaker and a bone conduction actuator by using one actuator, to provide a bone conduction vibrating actuator which enables a vibration mode output of bodily sensing vibration on the occasion of the incoming call of a telephone, etc., or an alarm for an emergency, and to provide a portable electronic apparatus using the same.

**SOLUTION:** The vibrating actuator 11 is provided with a drive part 10, and is mounted in the casing 21 of a portable communication terminal device, etc., as a sound source.; The drive part 10 is provided with a piezoelectric body 1 to convert an electric signal into vibration, a fixing member for integrating an almost central part of a piezoelectric body 1 with the casing 21, a ring-shaped elastic body 2 firmly fixed to the outer peripheral part of the piezoelectric body 1, and a weight 3 to be firmly fixed to the elastic body 2.



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## PERSONAL MASSAGING APPARATUS AND METHOD

**Publication number:** WO2004082556 (A2)

**Publication date:** 2004-09-30

**Inventor(s):** VICENDESE FRANK [US]

**Applicant(s):** VICENDESE FRANK [US]

**Classification:**


- **international:** *H04M1/21; H04M1/725; H04M19/04; H04M1/21; H04M1/72; H04M19/00; (IPC1-7): A61H*


- **European:** H04M1/21


**Application number:** WO2004US04356 20040212

**Priority number(s):** US20030367551 20030214


**Also published as:**


 WO2004082556 (A3)


 US2004176037 (A1)

 US6978164 (B2)

**Cited documents:**

 US6744370 (B1)

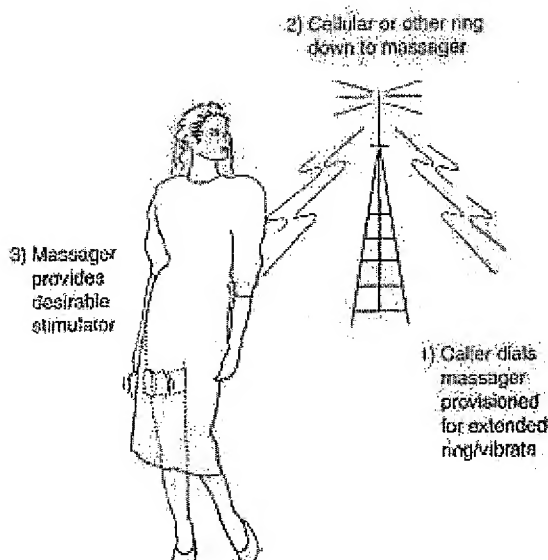
 US6694143 (B1)

 US6650231 (B1)

 US5780958 (A)

### Abstract of WO 2004082556 (A2)

A personal massaging method and apparatus constructed from a wireless cellular telephone, preferably provisioned for extended ring/vibrate, having either an attachable/removable, fixed, or integral stimulator on a surface of the telephone. When the telephone is called, the wearer or user receives a desirable level of stimulation when the stimulators are applied to a sensitive portion of the user's body. A variety of shapes, sizes and materials may be used for the stimulators to provide a wide array of stimulation or massage.



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### 1. Database

Select patent database:

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### 2. Search terms

Enter keywords in English

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Keyword(s) in title or abstract:	<input type="text" value="pager* vibrat*"/>	hair
Publication number:	<input type="text"/>	WO03075629
Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## DENTAL DEVICE

**Publication number:** CA2340805 (A1)

Publication date: 2001-09-15

**Inventor(s):** LORUNSER JOHANNES [AT]; ROHNER GOTTFRIED [CH]; GRUNENFELDER ROBERT [LI]

**Applicant(s):** IVOCAR VIVADENT AG [LI]

**Classification:**



- international: A61C19/00; A61C1/00; A61C13/00; A61C13/34; A61C13/38;  
A61C5/06; A61C13/20; A61C19/00; A61C1/00; A61C13/00;  
A61C5/00; A61C13/20; (IPC1-7): A61C19/04; A61C19/00

- European: A61C1/00C2

**Application number:** CA20012340805 20010314

**Priority number(s):** DE20001012632 20000315

**Also published as:**

 EP1133954 (A2) EP1133954 (A3)

EP1133954 (B1)

DE10012632 (A1)

DE10012632 (C2)

### Abstract of CA 2340805 (A1)

A dental device performs a dental process with a program control that controls at least one parameter curve of the dental device during the process. A cut-off apparatus turns the dental device off at some time after the beginning of the process when the process has concluded, the device comprises: a pager that is connected to the program control, the pager being activatable near the end of the process or directly upon conclusion of the process. The pager may be a wireless pager provided with a transmitter that is connected to a switch output of said program control, and a mobile, battery or cell operated receiver that has an acoustic and/or visual display or a vibrating element.

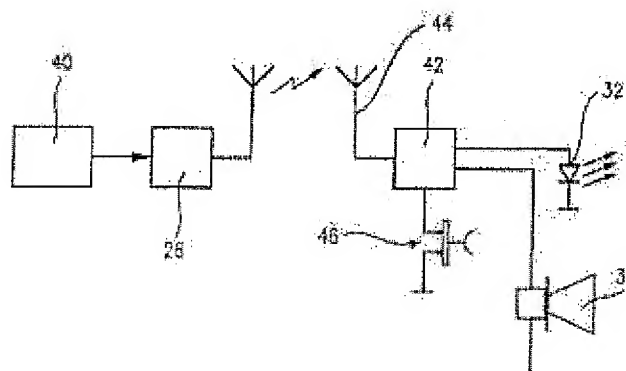


Fig. 3

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### 2. Search terms

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Keyword(s) in title or abstract:	<input type="text" value="telephon* assess*"/>	hair
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Application number:	<input type="text"/>	DE19971031696
Priority number:	<input type="text"/>	WO1995US15925
Publication date:	<input type="text"/>	yyyymmdd
Applicant(s):	<input type="text"/>	Institut Pasteur
Inventor(s):	<input type="text"/>	Smith
European Classification (ECLA):	<input type="text"/>	F03G7/10
International Patent Classification (IPC):	<input type="text" value="a61"/>	H03M1/12

## BRAIN FUNCTION SCAN SYSTEM

**Publication number:** WO0137724 (A1)

**Publication date:** 2001-05-31

**Inventor(s):** JOHN ERWIN ROY [US]; JOHN MICHAEL SASHA [CA]

**Applicant(s):** ROY JOHN ERWIN [US]; JOHN MICHAEL SASHA [CA]

**Classification:**

- **international:** A61B5/00; A61B5/0476; A61B5/0484; A61B5/00; A61B5/0476; (IPC1-7): A61B5/00

- **European:** A61B5/00B; A61B5/0484

**Application number:** WO2000US10055 20000414

**Priority number(s):** US19990447369 19991123

**Also published as:**

EP1272098 (A1)

**Cited documents:**

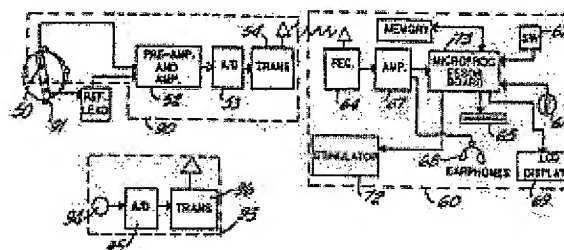
US5325862 (A)

US5752922 (A)

US5746205 (A)

### Abstract of WO 0137724 (A1)

A portable EEG (electroencephalograph) instrument, especially for use in emergencies and brain assessments in physicians' offices, detects and amplifies brain waves and converts them into digital data for analysis by comparison with data from normal groups. In one embodiment, the EEG electrodes are in a headband which broadcasts the data, by radio or cellular phone, to a local receiver for re-transmission and/or analysis. In another embodiment, the subject is stimulated in two modes, i.e., aural and sensory, at two different frequencies to provide the subject's EPs (Evoked Potentials), assessing transmission through the brainstem and thalamus.



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**LIST OF CITING DOCUMENTS**1 document citing **US2004176037 (B2)****1 Mobile phone using tactile icons****Inventor:** KAARESOJA TOPI [FI] ; HEMANUS  
JUHA [FI]**Applicant:** NOKIA CORP [US]**EC:** H04W88/02; G08B6/00; (+5)**IPC:** G08B6/00; H04M1/247; H04M1/725; (+8)**Publication info:** **US2002177471 (A1)** — 2002-11-28

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## Mobile phone using tactile icons

**Publication number:** US2002177471 (A1)

**Publication date:** 2002-11-28

**Inventor(s):** KAARESOJA TOPI [FI]; HEMANUS JUHA [FI]

**Applicant(s):** NOKIA CORP [US]

**Classification:**


- international: **G08B6/00; H04M1/247; H04M1/725; H04W88/02; H04M19/04; G08B6/00; H04M1/247; H04M1/72; H04W88/00; H04M19/00; (IPC1-7): H04B1/38**

- European: **H04W88/02; G08B6/00; H04M1/247; H04M1/725F; H04M1/725F1G; H04M1/725F1M; H04Q7/32**

**Application number:** US20020066331 20020131

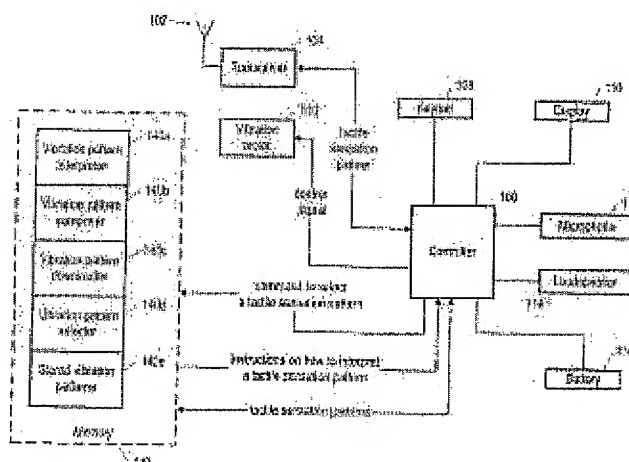
**Priority number(s):** US20020066331 20020131; US20010292989P 20010523

**Also published as:**

 **US6963762 (B2)**

### Abstract of US 2002177471 (A1)

A mobile phone or telecommunications terminal that sends and receives tactile icons (tactile sensation patterns, including vibration patterns) discernible by feel to a user of the mobile phone or terminal, indicative of a message desired to be communicated between users of such a mobile phone or terminal (not information concerning the operation of the mobile phone or terminal). The mobile phone or terminal includes a source of tactile sensations (such as a vibratory device) that produces a tactile sensation in response to control signals issued by a controller when a message including a tactile icon is received; the control signals are based on instructions included in the mobile phone or terminal on how to interpret a tactile sensation pattern. The source of tactile sensations is for example an eccentric electric motor, a source of puffs of air, an electric signal, a razor-type linear vibrator, a solenoid, or a piezoelectric material.



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